

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10712, S33 A

Source: TPW

Date Processed by STIC: 11-22-04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/22/2004

PATENT APPLICATION: US/10/712,533A

TIME: 11:12:29

Input Set : A:\02356.0086 SEQUENCE LISTING.txt

Output Set: N:\CRF4\11222004\J712533A.raw

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/712,533A

DATE: 11/22/2004

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Input Set : A:\02356.0086 SEQUENCE LISTING.txt
Output Set: N:\CRF4\11222004\J712533A.raw

106 50 55 60
109 <210> SEQ ID NO: 4
111 <211> LENGTH: 117
113 <212> TYPE: PRT
115 <213> ORGANISM: Plasmodium falciparum
119 <400> SEQUENCE: 4
121 Glu Phe Pro Asp Pro Arg Ser Asn Asp Gln Glu Asp Ala Thr Asp Asp
122 1 5 10 15
125 Val Val Glu Asn Ser Arg Asp Asp Asn Asn Ser Leu Ser Asn Ser Val
126 20 25 30
129 Asp Asn Gln Ser Asn Val Leu Asn Arg Glu Asp Pro Ile Ala Ser Glu
130 35 40 45
133 Thr Glu Val Val Ser Glu Pro Glu Asp Ser Ser Arg Ile Met Thr Thr
134 50 55 60
137 Glu Val Pro Ser Thr Thr Val Lys Pro Pro Asp Glu Lys Arg Ser Glu
138 65 70 75 80
141 Glu Val Gly Glu Lys Glu Ala Lys Glu Ile Lys Val Glu Pro Val Val
142 85 90 95
145 Pro Arg Ala Ile Gly Glu Pro Met Glu Asn Ser Val Ser Val Gln Ser
146 100 105 110
149 Pro Pro Lys Glu Phe
150 115
153 <210> SEQ ID NO: 5
155 <211> LENGTH: 5
157 <212> TYPE: PRT
159 <213> ORGANISM: Plasmodium falciparum
163 <400> SEQUENCE: 5
165 Asp Asn Lys Asn Val
166 1 5
169 <210> SEQ ID NO: 6
171 <211> LENGTH: 5
173 <212> TYPE: PRT
175 <213> ORGANISM: Plasmodium falciparum
179 <400> SEQUENCE: 6
181 Asp Asn Lys Asn Asp
182 1 5
185 <210> SEQ ID NO: 7
187 <211> LENGTH: 6
189 <212> TYPE: PRT
191 <213> ORGANISM: Plasmodium falciparum
195 <400> SEQUENCE: 7
197 Asp Lys Glu Lys Asn Val
198 1 5
201 <210> SEQ ID NO: 8
203 <211> LENGTH: 7
205 <212> TYPE: PRT
207 <213> ORGANISM: Plasmodium falciparum
211 <400> SEQUENCE: 8
213 Lys Ser Asp Asn Lys Asn Val

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214 1 5
217 <210> SEQ ID NO: 9
219 <211> LENGTH: 1524
221 <212> TYPE: DNA
223 <213> ORGANISM: Plasmodium falciparum
227 <220> FEATURE:
229 <221> NAME/KEY: CDS
231 <222> LOCATION: (1)..(1524)
233 <223> OTHER INFORMATION:
N--> 237 <400> 9
238 atg aag acg aca aaa gaa aat gac aat aac ata gta cat tat gta 48
239 Met Lys Thr Thr Lys Glu Asn Asp Asn Asn Ile Val His Tyr Val
240 1 5 10 15
242 gat tgg ata aac cag att ttt aaa aag aat tct tta caa tgt gat tta 96
243 Asp Trp Ile Asn Gln Ile Phe Lys Lys Asn Ser Leu Gln Cys Asp Leu
244 20 25 30
246 tat ttt ttg gat gac aac aaa gaa aaa gat gtt agt aag aaa aga aaa 144
247 Tyr Phe Leu Asp Asp Asn Lys Glu Lys Asp Val Ser Lys Lys Arg Lys
248 35 40 45
250 gct caa ttg aag gat gaa tat gat aat ata tca agg agc aaa gaa aat 192
251 Ala Gln Leu Lys Asp Glu Tyr Asp Asn Ile Ser Arg Ser Lys Glu Asn
252 50 55 60
254 att aat aat tcc aaa aaa ata aaa aat gaa tta agt ata aaa gat aat 240
255 Ile Asn Asn Ser Lys Ile Lys Asn Glu Leu Ser Ile Lys Asp Asn
256 65 70 75 80
258 atg cac gat tac ata tat gat gat cgt atc tac aat aat gat aaa gag 288
259 Met His Asp Tyr Ile Tyr Asp Asp Arg Ile Tyr Asn Asn Asp Lys Glu
260 85 90 95
262 aaa aat gtt ata aaa agt gat aat aaa aat gtt ata aaa agt gat aat 336
263 Lys Asn Val Ile Lys Ser Asp Asn Lys Asn Val Ile Lys Ser Asp Asn
264 100 105 110
266 aaa aat gat tat aaa aag tgt aat aaa aat gtt ata aaa agt gat aat 384
267 Lys Asn Asp Tyr Lys Lys Cys Asn Lys Asn Val Ile Lys Ser Asp Asn
268 115 120 125
270 aaa aat gtt ata aaa agt gat aat aaa aat gtt ata aaa agt gat aat 432
271 Lys Asn Val Ile Lys Ser Asp Asn Lys Asn Val Ile Lys Ser Asp Asn
272 130 135 140
274 aaa aat gtt ata aaa agt gat tat aaa agt gat gat aga aat gct tgt 480
275 Lys Asn Val Ile Lys Ser Asp Tyr Lys Ser Asp Asp Arg Asn Ala Cys
276 145 150 155 160
278 gat att tat aaa agt aat aaa aaa aat gtt cct gat aat tgc cat ata 528
279 Asp Ile Tyr Lys Ser Asn Lys Lys Asn Val Pro Asp Asn Cys His Ile
280 165 170 175
282 tat gat gat aat agt tca gtt gaa aat tta gat gga aaa aat aaa tta 576
283 Tyr Asp Asp Asn Ser Ser Val Glu Asn Leu Asp Gly Lys Asn Lys Leu
284 180 185 190
286 aat aat ata agg aac ata cat aat gat aac tca tct tca tgc gat ata 624
287 Asn Asn Ile Arg Asn Ile His Asn Asp Asn Ser Ser Cys Asp Ile
288 195 200 205

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290	tcc	gat	ata	aaa	agt	gaa	gat	gaa	tat	ata	gaa	cca	tat	gaa	aaa	aag	672
291	Ser	Asp	Ile	Lys	Ser	Glu	Asp	Glu	Tyr	Ile	Glu	Pro	Tyr	Glu	Lys	Lys	
292	210				215					220							720
294	aat	gaa	gaa	aat	ata	aat	gaa	tat	aag	aat	aag	aaa	aat	ata	gcc	aat	
295	Asn	Glu	Glu	Asn	Ile	Asn	Glu	Tyr	Lys	Asn	Lys	Lys	Asn	Ile	Ala	Asn	
296	225				230					235				240			240
298	gaa	aat	ata	aaa	gaa	gga	aag	agt	tca	att	tat	aat	gat	gaa	cat	aat	768
299	Glu	Asn	Ile	Lys	Glu	Gly	Lys	Ser	Ser	Ile	Tyr	Asn	Asp	Glu	His	Asn	
300	300				245					250				255			
302	tat	aat	tca	tta	tta	tat	aat	tct	tgt	aat	ggt	gaa	ata	agt	aag	atc	816
303	Tyr	Asn	Ser	Leu	Leu	Tyr	Asn	Ser	Cys	Asn	Gly	Glu	Ile	Ser	Lys	Ile	
304	304				260					265				270			
306	aac	aaa	ata	agt	agt	cat	aat	aat	att	gat	aat	atg	gat	aat	tat	864	
307	Asn	Lys	Ile	Ser	Ser	His	Asn	Asn	Ile	Asp	Asn	Asn	Met	Asp	Asn	Tyr	
308	308				275					280				285			
310	aat	acg	ttt	gca	aat	gtg	aat	aat	ttt	ata	ata	tat	tcc	tca	gat	gat	912
311	Asn	Thr	Phe	Ala	Asn	Val	Asn	Asn	Phe	Ile	Ile	Tyr	Ser	Ser	Asp	Asp	
312	312				290					295				300			
314	gaa	gat	aat	ata	tca	aat	tat	tat	aat	ggt	aaa	gac	gta	tta	aat	gat	960
315	Glu	Asp	Asn	Ile	Ser	Asn	Tyr	Tyr	Asn	Gly	Lys	Asp	Val	Leu	Asn	Asp	
316	316				305					310				315			320
318	gag	att	atg	ttc	cct	ata	aaa	ttt	aat	ttt	gaa	aaa	tta	aaa	aaa	aat	1008
319	Glu	Ile	Met	Phe	Pro	Ile	Lys	Phe	Asn	Phe	Glu	Lys	Leu	Lys	Lys	Asn	
320	320				325					330				335			
322	att	tat	gta	ata	gag	cat	ata	gac	aaa	ata	tat	tat	gat	aca	ttt	tta	1056
323	Ile	Tyr	Val	Ile	Glu	His	Ile	Asp	Lys	Ile	Tyr	Tyr	Asp	Thr	Phe	Leu	
324	324				340					345				350			
326	aat	aaa	aat	cca	agt	gaa	aaa	agt	gtt	ttt	atg	aat	gat	gaa	tct	act	1104
327	Asn	Lys	Asn	Pro	Ser	Glu	Lys	Ser	Val	Phe	Met	Asn	Asp	Glu	Ser	Thr	
328	328				355					360				365			
330	ggt	tat	ttg	aaa	aat	gat	gtg	aat	gac	aaa	tgt	gtt	gtt	gat	aat	ata	1152
331	Gly	Tyr	Leu	Lys	Asn	Asp	Val	Asn	Asp	Lys	Cys	Val	Val	Asp	Asn	Ile	
332	332				370					375				380			
334	aat	gtt	att	aat	cct	tct	agt	gtg	aat	acg	ttg	agt	aat	att	tca	aat	1200
335	Asn	Val	Ile	Asn	Pro	Ser	Ser	Val	Asn	Thr	Leu	Ser	Asn	Ile	Ser	Asn	
336	336				385					390				395			400
338	att	agg	aat	gaa	aaa	ata	gaa	aat	aat	aat	aag	aat	gaa	aaa	tta	ata	1248
339	Ile	Arg	Asn	Glu	Lys	Ile	Glu	Asn	Asn	Asn	Lys	Asn	Glu	Lys	Leu	Ile	
340	340				405					410				415			
342	aaa	tca	tat	cct	aca	caa	tca	aaa	aat	gtt	atg	agt	aca	ttt	tcc	ttt	1296
343	Lys	Ser	Tyr	Pro	Thr	Gln	Ser	Lys	Asn	Val	Met	Ser	Thr	Phe	Ser	Phe	
344	344				420					425				430			
346	tgg	aat	att	gaa	aag	gag	aca	ttt	ata	aca	aaa	cct	ttg	tat	gca	caa	1344
347	Trp	Asn	Ile	Glu	Lys	Glu	Thr	Ile	Thr	Lys	Pro	Leu	Tyr	Ala	Gln		
348	348				435					440				445			
350	aat	ttg	aga	aaa	aaa	caa	ttt	agt	tta	tta	gat	gaa	tct	gaa	gag	atg	1392
351	Asn	Leu	Arg	Lys	Lys	Gln	Phe	Ser	Leu	Leu	Asp	Glu	Ser	Glu	Glu	Met	
352	352				450					455				460			
354	ata	aga	aat	tat	tca	tct	aat	caa	tat	tct	ata	aaa	ttt	gta	cca	aga	1440

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355 Ile Arg Asn Tyr Ser Ser Asn Gln Tyr Ser Ile Lys Phe Val Pro Arg
 356 465 470 475 480
 358 cat tta tta tat gta atg agt caa gtt gct tct cga tcc ttt ttt gat 1488
 359 His Leu Leu Tyr Val Met Ser Gln Val Ala Ser Arg Ser Phe Phe Asp
 360 485 490 495
 362 cct tta tat aga aag cag tta ttt ttt cgt tac taa 1524
 363 Pro Leu Tyr Arg Lys Gln Leu Phe Phe Arg Tyr
 364 500 505
 367 <210> SEQ ID NO: 10
 369 <211> LENGTH: 507
 371 <212> TYPE: PRT
 373 <213> ORGANISM: Plasmodium falciparum
 377 <400> SEQUENCE: 10
 379 Met Lys Thr Thr Lys Glu Asn Asp Asn Asn Ile Val His Tyr Val
 380 1 5 10 15
 383 Asp Trp Ile Asn Gln Ile Phe Lys Lys Asn Ser Leu Gln Cys Asp Leu
 384 20 25 30
 387 Tyr Phe Leu Asp Asp Asn Lys Glu Lys Asp Val Ser Lys Lys Arg Lys
 388 35 40 45
 391 Ala Gln Leu Lys Asp Glu Tyr Asp Asn Ile Ser Arg Ser Lys Glu Asn
 392 50 55 60
 395 Ile Asn Asn Ser Lys Lys Ile Lys Asn Glu Leu Ser Ile Lys Asp Asn
 396 65 70 75 80
 399 Met His Asp Tyr Ile Tyr Asp Asp Arg Ile Tyr Asn Asn Asp Lys Glu
 400 85 90 95
 403 Lys Asn Val Ile Lys Ser Asp Asn Lys Asn Val Ile Lys Ser Asp Asn
 404 100 105 110
 407 Lys Asn Asp Tyr Lys Lys Cys Asn Lys Asn Val Ile Lys Ser Asp Asn
 408 115 120 125
 411 Lys Asn Val Ile Lys Ser Asp Asn Lys Asn Val Ile Lys Ser Asp Asn
 412 130 135 140
 415 Lys Asn Val Ile Lys Ser Asp Tyr Lys Ser Asp Asp Arg Asn Ala Cys
 416 145 150 155 160
 419 Asp Ile Tyr Lys Ser Asn Lys Lys Asn Val Pro Asp Asn Cys His Ile
 420 165 170 175
 423 Tyr Asp Asp Asn Ser Ser Val Glu Asn Leu Asp Gly Lys Asn Lys Leu
 424 180 185 190
 427 Asn Asn Ile Arg Asn Ile His Asn Asp Asn Ser Ser Cys Asp Ile
 428 195 200 205
 431 Ser Asp Ile Lys Ser Glu Asp Glu Tyr Ile Glu Pro Tyr Glu Lys Lys
 432 210 215 220
 435 Asn Glu Glu Asn Ile Asn Glu Tyr Lys Asn Lys Lys Asn Ile Ala Asn
 436 225 230 235 240
 439 Glu Asn Ile Lys Glu Gly Lys Ser Ser Ile Tyr Asn Asp Glu His Asn
 440 245 250 255
 443 Tyr Asn Ser Leu Leu Tyr Asn Ser Cys Asn Gly Glu Ile Ser Lys Ile
 444 260 265 270
 447 Asn Lys Ile Ser Ser His Asn Asn Ile Asp Asn Asn Met Asp Asn Tyr
 448 275 280 285

VERIFICATION SUMMARY

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Input Set : A:\02356.0086 SEQUENCE LISTING.txt

Output Set: N:\CRF4\11222004\J712533A.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application No
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:237 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:233
L:537 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:523
L:547 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:533
L:557 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:543
L:557 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:553